harlie o you have seen these tables and figures before but CI-7 values did not follow pattern of up-bay increase of other congeners. The meno from Pete says why, It was simple a question of detection limits not a real absence of these Congerers at Stations 12, 4134 14. Dave Hausen

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U.S. ENVIRONMENTAL PROTECTION AGENC

Environmental Research Laboratory Narragansett, R.I.

S: NEW BEDFORD 5. 3.4.4/ 0. 1.2: 5/892

Date:

October 10, 1986

Subject:

Re-analysis of New Bedford Field Cores for Station 12-14

From:

Dr. Peter Rogerson, Analytical Chemist?

To:

Mr. Dave Hansen

At your request, I have re-analyzed the field collected cores from New Bedford Harbor stations 12, 13, and 14 at higher electron multiplier settings on the mass spectrometer. This has the effect of increasing the sensitivity of the analysis by a factor of approximately 4 so as to make the CI-7 PCB congeners detectable in the extracts instead of non-detectable. This has been accomplished, and the new data inserted into a spread sheet, given a new name, and revised plots made in the same format as the old plots, but with new names. Therefore, both the original and the revised data and plots are available.

Please find attached the new plots showing the detected trends for C1-7 PCBs. If you have any further questions, please do not hesitate to contact me.

Table 7. Concentration (ug/g dry weight) of polychlorinated biphenyls (PCBs) in sediments from New Bedford Harbor. Analysis was performed by GC/MS. Concentrations are reported by chlorine number congeners, and as total PCBs. Values are composites of cores from 9 to 13 Ponar dredge samples from stations 2 to 14 in New Bedford Harbor; one dredge sample was analyzed from station 1.

Sample ID	C1 - 1	C1 - 2	C1 - 3	C1 - 4	C1 - 5	C1 - 6	C1 - 7	C1 - 8	C1 - 9	C1 - 10	Σug/g
NBH-1	nd*	0.20	0.93	1.9	1.7	0.65	0.02	nd∓	nd ±	nd*	5.3
NBH-2	nd*	0.20	1.4	3.6	3.0	1.1	90.0	nd∓	nd≭	nd∓	9.4
NBH-3	nd*	0.18	1.4	3.9	4.0	1.6	0.10	nd*	nd*	nd*	11
NBH-4	nd*	0.15	1.0	2.9	2.7	1.2	90.0	nd*	nd*	nd*	0.8
NBH-5	nd*	0.08	0.73	2.2	2.3	0.87	0.02	nd*	nd*	nd≠	6.1
NBH-6	nd*	0.30	2.9	7.8	7.1	2.7	0.17	nd≭	nd*	nd*	21
NBH-7	nd*	0.21	1.7	6.1	6.8	2.6	0.19	nd*	nd*	nd*	18
NBH-8	nd*	0.55	5.9	15	17	7.5	0.67	nd∓	nd*	nd∓	47
NBH-9	nd*	0.39	4.0	11	12	4.5	0.37	nd*	nd*	nd*	32
NBH-10	nd*	0.36	4.1	12	10	3.9	0.27	nd∓	nd*	nd*	30
NBH-12	1.0	5.2	52	122	89	25	1.8	nd≆	nd*	nd*	300
NBH-13	nd*	63	250	320	176	47	2.0	nd≭	nd≭	nd*	850
NBH-14	3.7	280	660	740	370	90	3.4	nd≠	nd*	nd*	2100

^{*}nd = non detectable (As low as 0.02 ug/g, depending on sample dry weight and congener response)





